

## Special Issue

# Radio Frequency Interference (RFI) in Microwave Remote Sensing

### Message from the Guest Editors

New technologies and consumer applications increasingly need to use radio frequencies. This is pushing demand for frequency spectrum to unprecedented levels, and as a result both active and passive spaceborne microwave remote sensing instruments are experiencing problems with the Radio Frequency Interference (RFI) more and more often. RFI are strongly affecting microwave satellite borne missions, like radiometers, and Synthetic Aperture Radar, from LEO missions to GNSS and geosynchronous SAR sensors. The huge increase in WLAN and wireless devices, their expansion in C band, and the RFI generated by direct or backscattered signal, either in-band or by harmonics harms the present and future generation of spaceborne remote sensing.

This special issue will cover the different aspects of RFI, such as detection and mitigation of interference from different levels: from mission levels (swarms or distributed sensors), to a signal processing perspective and hardware design, encompassing both active and passive sensors. It also aims to include report of RFI observations, together with their trend, and to inform on the latest regulatory developments in spectrum management.

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### Guest Editors

Prof. Dr. Andrea Monti Guarnieri

Dr. Paolo de Matthaeis

Prof. Dr. Adriano Camps

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### Deadline for manuscript submissions

closed (30 September 2019)



## Remote Sensing

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### Message from the Editor-in-Chief

*Remote Sensing* is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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### Editor-in-Chief

Dr. Prasad S. Thenkabail

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